1 of 14
Title: A Hybrid Neural Network And Seport
Vector Machine Method For Ization
SN: 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1
POC: Vickle L, Kent (650) 604-0887

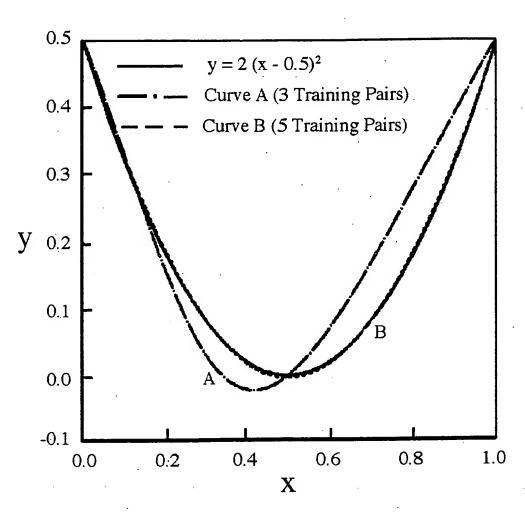
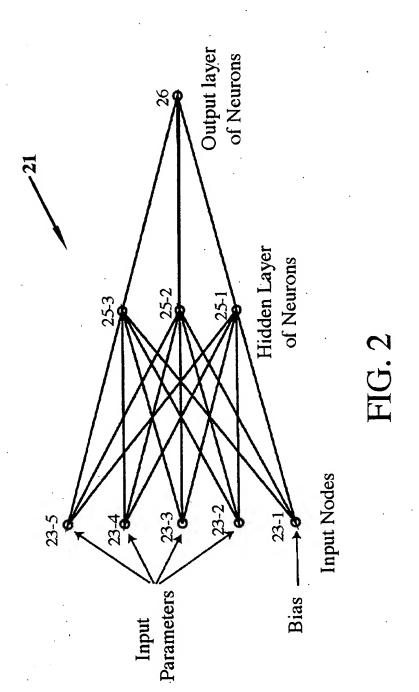


FIG. 1

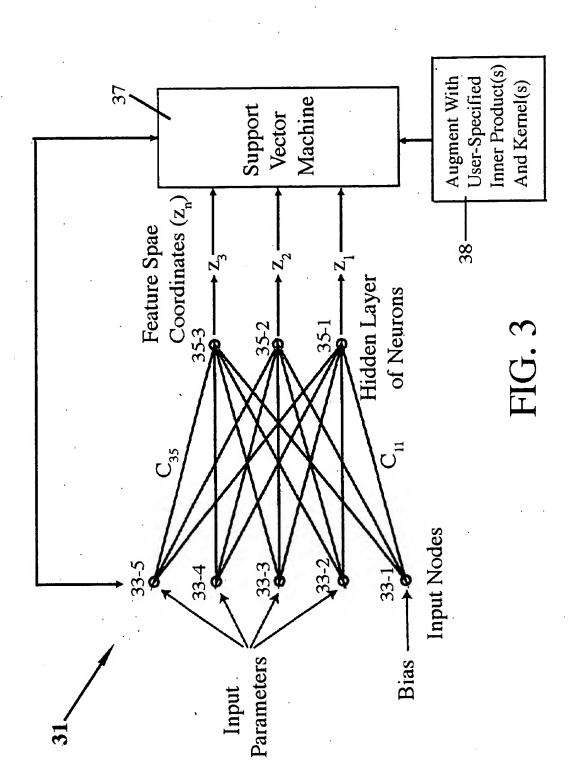
2 of 14
Title: A Hybrid Neural Network And Support
Vector Machine Method For Optimizatio
SN: 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1
POC: Vickie L. Kent (650) 604-0887



行務に

3 of 14
Title: A Hybrid Neural Network And Suppose Vector Machine Method For Optin SN: 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1

POC: Vickie L. Kent (650) 604-0887



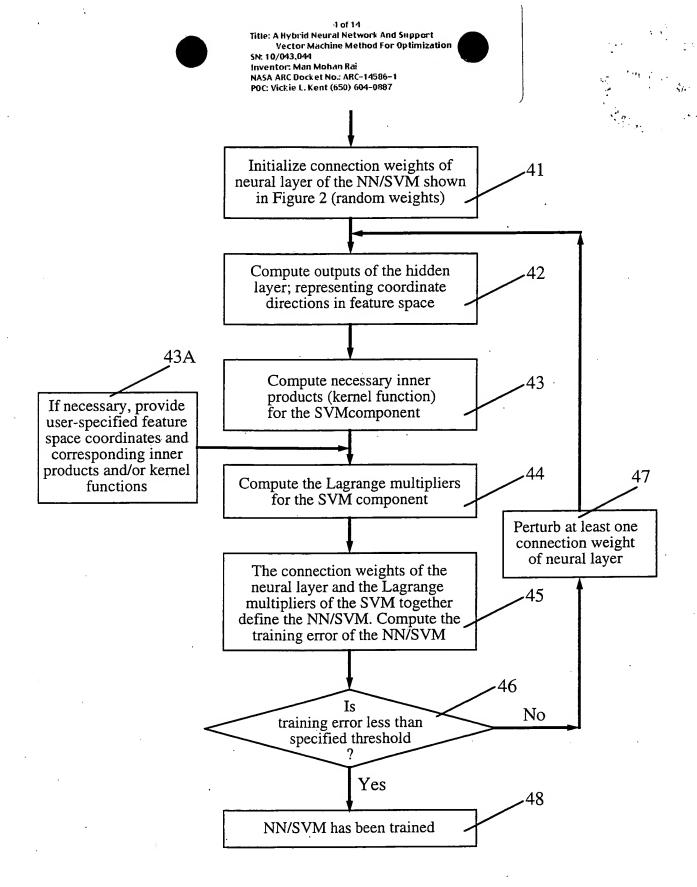
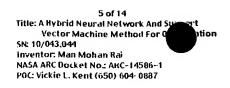
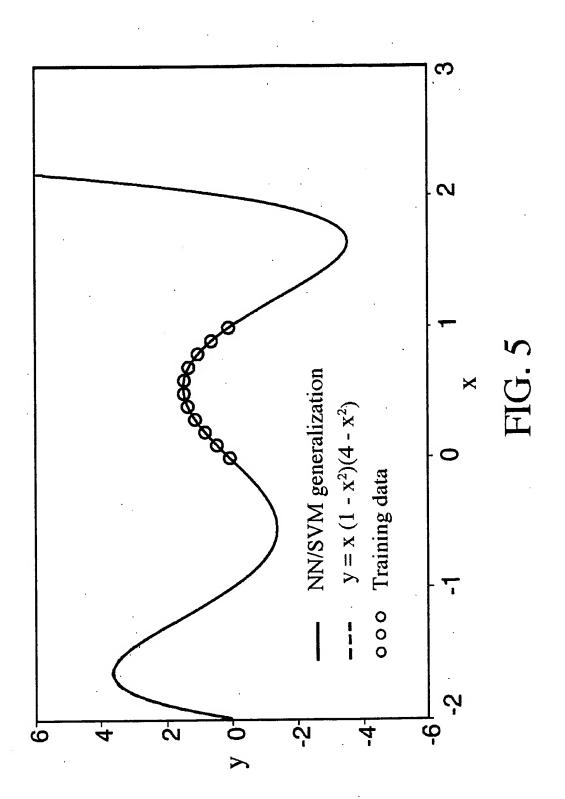
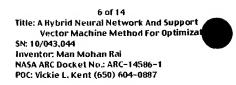
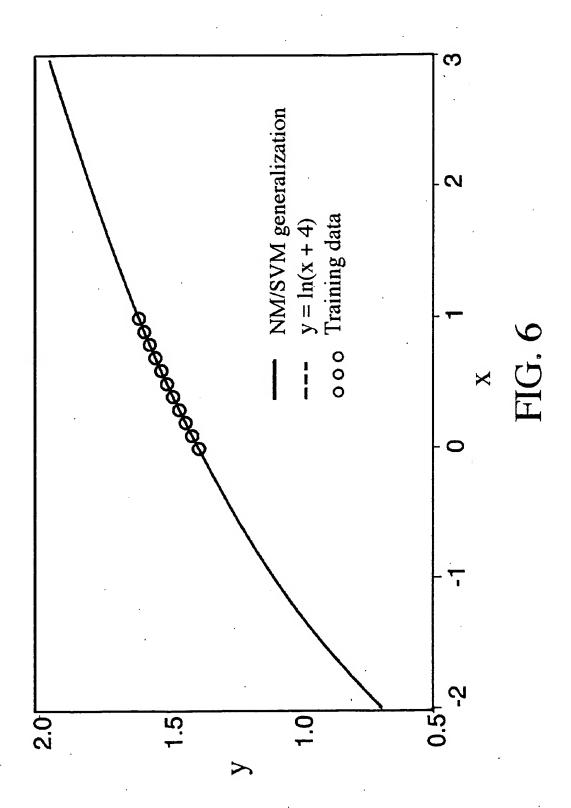


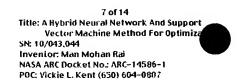
FIG. 4

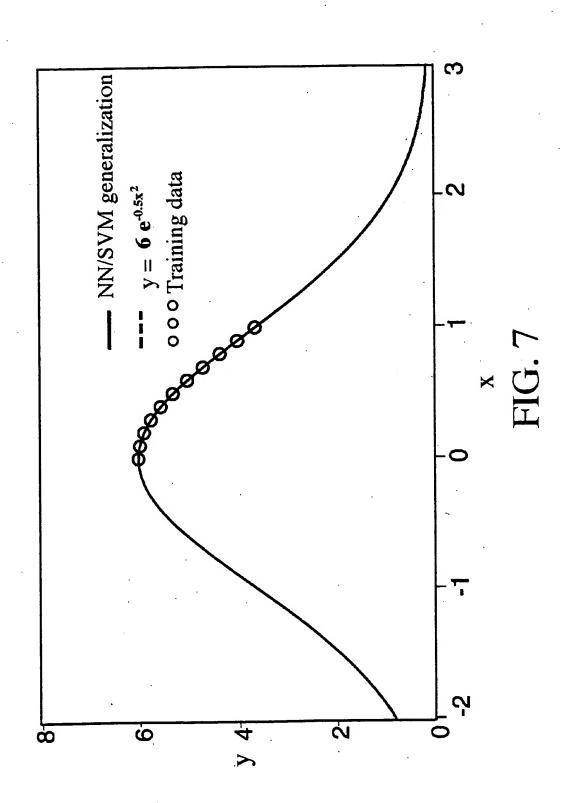


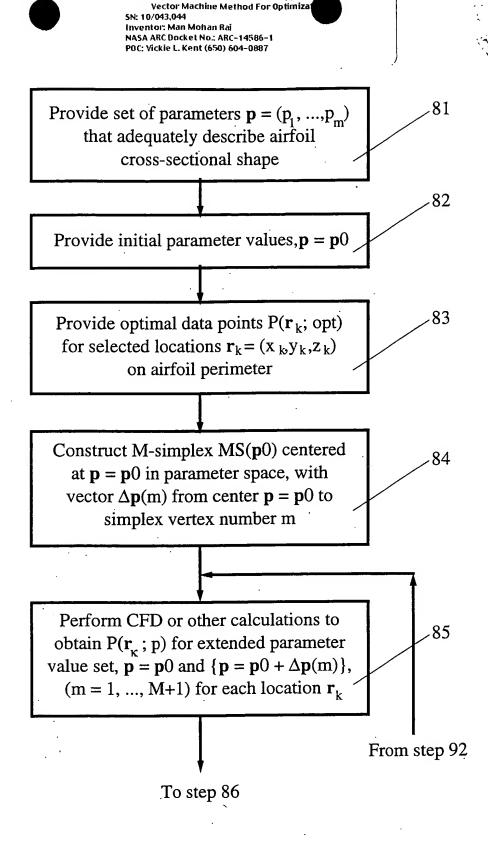












Title: A Hybrid Neural Metwork And Support

FIG. 8A

9 of 14

Title: A Hybrid Neural Network And Superst Vector Machine Method For Op SN: 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1
POC: Vickie L. Kent (650) 604-0887

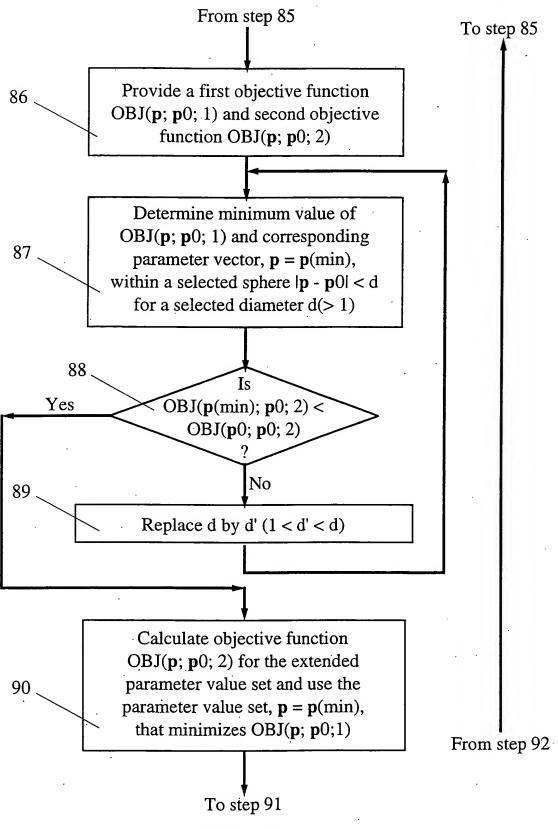
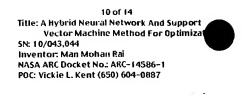


FIG. 8B



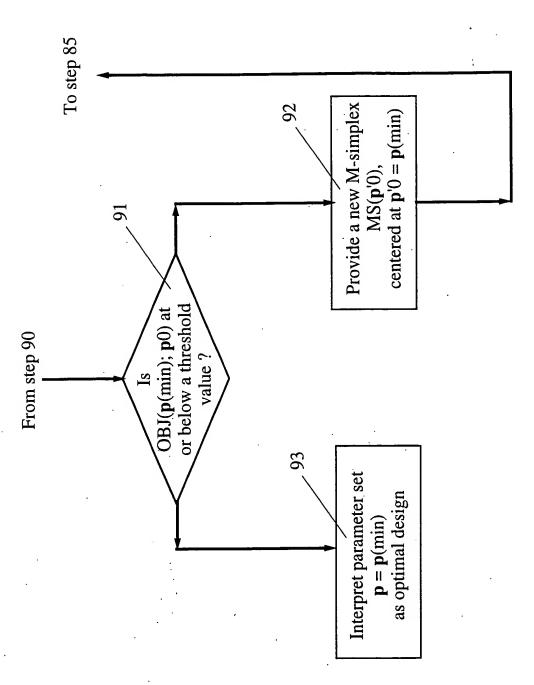
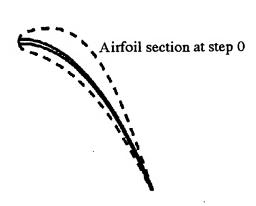


FIG. 8C

11 of 14
Title: A Hybrid Neural Network And Support
Vector Machine Method For Optin
SN: 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1
POC: Vickie L. Kent (650) 604-0887

## Optimized airfoil sections and pressure distributions

- Target airfoil sectionOptimal airfoil sections
- Target pressure dataOptimal pressure distributions



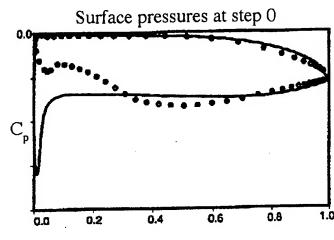
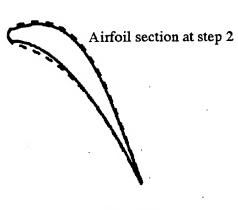




FIG. 9A-2



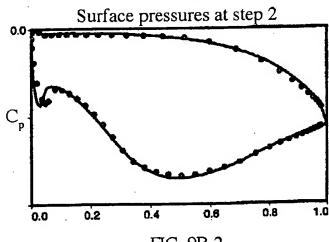
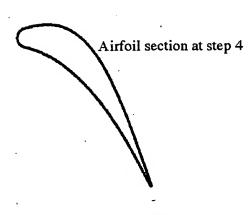


FIG. 9B-1

FIG. 9B-2



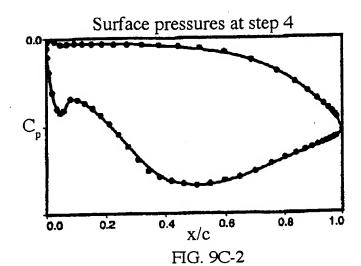
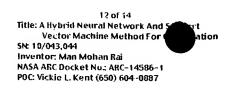
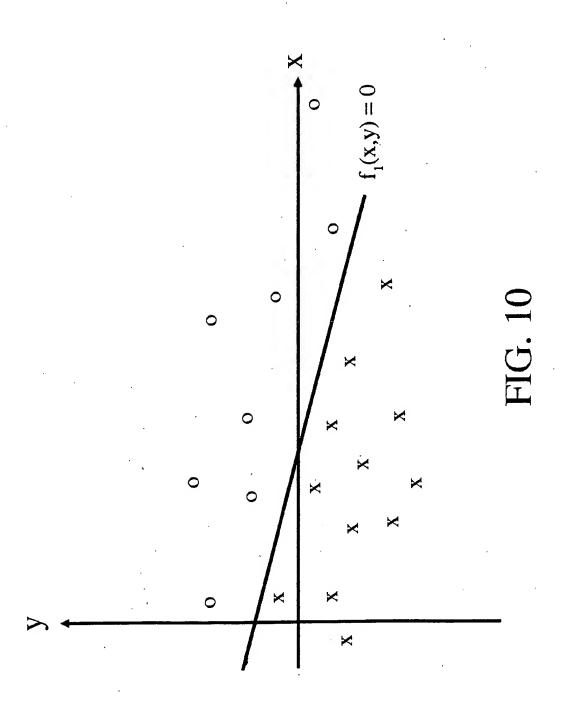


FIG. 9C-1





;

nization

14 of 14
Title: A Hybrid Neural Network And Sovetor Machine Method For Office No. 10/043,044
Inventor: Man Mohan Rai
NASA ARC Docket No.: ARC-14586-1
POC: Vickie L. Kent (650) 604-0887

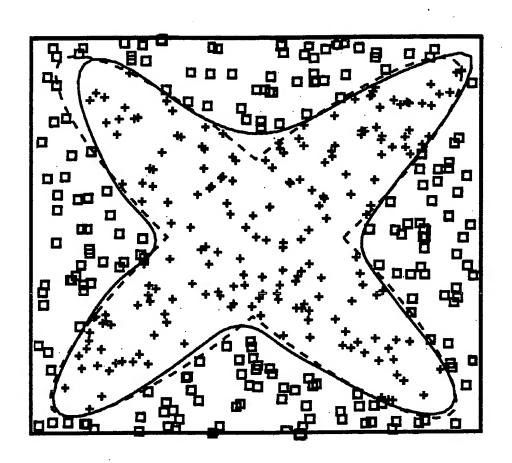


FIG. 12